

# MULTICARRIER SYSTEM WITH TRANSMIT DIVERSITY

Bibliographic data

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Claims

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status

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**Inventor(s):**

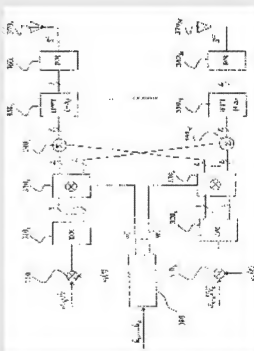
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COMMUNICATIONS  
LABORATORIES

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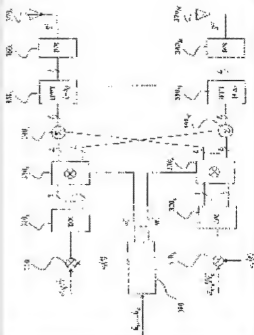
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**Application  
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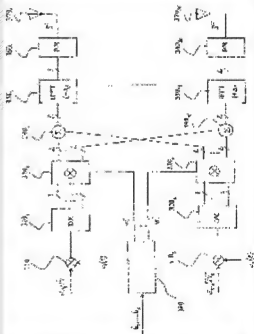
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**View INPADOC patent family**

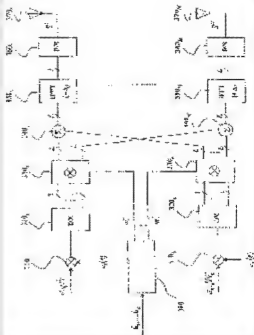
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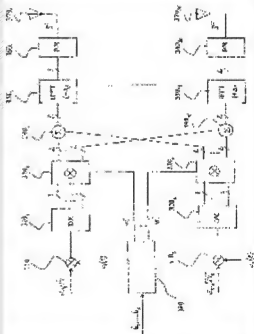
WO2005029801  
(A1)



EP1665703  
(A1)



EP1665703  
(B1)



DE60318754  
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Abstract not available for JP 2007515829 (T)

Abstract of corresponding document: **WO 2005029801 (A1)**

An apparatus for providing a multi-carrier modulated signal from a first user signal and from a second user signal using a multi-carrier modulation scheme having a number of carriers with successive carrier frequencies comprises an input (101) for receiving the first user signal and the second user signal, an

assigner (115) for assigning values of the first user signal or processed values of the first user signal to a first set of carriers having successive carrier frequencies and for assigning values of the second user signal or processed values of the second user signal to a second set of carriers having successive carrier frequencies, a multi-carrier modulator (117) for providing a multi-carrier modulated signal by simultaneously modulating values assigned to the first set of successive carrier frequencies and values assigned to the second set of successive carrier frequencies. The inventive assigning scheme provides a concept for an efficient exploitation of a spatial diversity in a multi-user scenario.